

Product Report

IQMediaMonitor™



[IQMediaMonitor Remote Video over IP Monitoring System with "RVM" Technology](#)

I. Purpose:

The IQMediaMonitor is the industry's first comprehensive real-time streaming monitoring solution capable of monitoring all video streams simultaneously on a fully loaded Gigabit Ethernet (GbE) network developed by IneoQuest Technologies.¹

II. Features and Benefits:

One major feature of the IQMediaMonitor is that it a real-time, monitoring solution that measures and monitors both the IP and the video transport stream integrity of each stream at the remote switch. It has the capability of automatically notifying network operators of streaming errors, which allows them, to resolve any issues before they can reach their customers.

Key Benefits:²

- Monitor Streaming Content Anywhere in an IP Network
- MDI-cumulative IP Jitter, MDI-IP packet loss
- IP bit-rate, RTP sequence errors and many video payload statistics
- Measures ISO 13818 video transport streams
- Validates transport stream integrity by monitoring continuity counter, PCR and sync bytes over a fully loaded GbE network
- Seamlessly integrates to a router/switch
- Automatic Video over IP Flow Detection
- Intuitive IQMediaMonitor Java Based Application
- Independent alarm thresholds logging and statistics
- Supports Simple Network Management Protocol (SNMP)
- Correlate Multiple Network Sites for QoS
- Remotely Monitor Network Statistics and Session Logs from Multiple sites

III. Technology

IQMediaMonitor supports several video encoding formats including MPEG2, MPEG4/H.264 and Microsoft Media(TM) 9/VC-2.

The hardware platforms are based on reconfigurable field-programmable gate array (FPGA) technology. This means that you can find stability in a developing market because, as new standards, formats and protocols emerge, IneoQuest products can be upgraded, which will prevent for test tool obsolescence.

This complete solution is comprised of other IneoQuest technologies such as, IneoQuest's Singulus(TM) G1-T 10/100/1000 Network Traffic Generator and Performance Analysis System with built in Tap for Video over IP (recently announced at NAB 2003) and Tektronix' MPEG analysis and monitoring equipment, such as the AD953-II MPEG Analysis System and MTM400 Transport Stream Monitor. The Singulus(TM) G1-T can generate, analyze and record Video over IP streams as well as measure IP transport jitter and quality with hardware-assisted timestamps.³

IQMediaMonitor with RVM technology is a scalable, cost effective solution for these types of video impairments:⁴

Distributed Network Monitoring

Distributed network operators need to verify program QoS at multiple, unmanned headend sites as maintenance operations are becoming increasingly more centralized. IQMediaMonitor with RVM technology can be the cost effective solution for unattended operations. Automatic monitoring of any number of network nodes or program streams visually inspected for picture impairments.

Confidence and Diagnostic Monitoring

IQMediaMonitor provides the ability to automatically log IP network errors across multiple remote sites via full SNMP support. Log files are stored for later remote access and download for more depth analysis. Using multiple IQMediaMonitor systems throughout the IP network allows for continuous confidence monitoring and QoS correlation.

IV. Limitations:

As state-of-the-art the IQMediaMonitor technology, maybe this still does not completely resolve the problem of buffer overflow and/or underflow. However, it does provide an aid to packet delays and IP packet drops which results in IP Jitter.

¹http://www.eetimes.com/press_releases/prnewswire/showPressRelease.jhtml?articleID=X260014

² http://ftp.ineoquest.com/pub/docs/Datasheets/IQProductFamily_V1.5.pdf

³ Tektronix Teams with IneoQuest Technologies

By PRNewswire

07/09/2003 4:30:31

URL: <http://www.eedesign.com/showPressRelease.jhtml?articleID=86725>

⁴ <http://ineoquest.com/page.php/id/120>